Dr. SEBASTIAN KRIEGER

São Paulo, SP — Brazil

📱 +55 (11) 996 394 630 — ✉ regeirk@gmail.com — 🔗 linkedin.com/in/regeirknaitsabes/ — ⭘ github.com/regeirk

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SUMMARY

- Doctor of science in oceanography with emphasis in geophysical fluid dynamics and satellite remote sensing.
- Data science & machine learning: analysis, modelling and reporting.
- Experience with ETL pipelines: data acquisition, transformation, database development.
- Self-taught computer programmer: Python developer since version 2.5.
- Familiar with agile practices like Scrum and test-driven development (TDD).
- Comfortable working collaboratively in cross-cultural and multi-disciplinary teams in the office as well as remotely.
- Excellent verbal and written communication skills both in English and Portuguese; conversational fluency in French, German and Spanish.

SELECTED WORK & RESEARCH EXPERIENCE

2018–present Bloomberg LP
São Paulo, SP
Data scientist

Responsible for managing end-to-end data workflows, including pre- and post-publishing quality control • Implementing and monitoring ETL pipelines that handle millions of records per day • Machine learning model development, e.g. financial conditions indicator for Brazil, agriculture crop yields forecast, anomaly detection • Co-organized a hackathon event for clients and university students • Mentor colleagues in applying computer programming best practices • Support journalists with data-driven news • Research for data products expansion.

2016–present nublia
São Paulo, SP
Solopreneur (concurrent with other activities)

Digital transformation, data science and machine learning consultancy • Design and implementation of ETL pipelines • Data science, data analytics and business intelligence training for cohorts of 20+ students.

2002–2021 Formula 1 São Paulo Grand Prix
São Paulo, SP
Race-secretary (concurrent with other activities)

Liaised information flux among FIA officials and local organizers • Assisted the Clerk of the Course and his deputies • Facilities and ceremonial set-up.
Deputy race-secretary (concurrent with other activities)

2016 Rio 2016 Organising Committee for the Olympic and Paralympic Games
Rio de Janeiro, RJ
Sport Information Coordinator – Canoe sprint/para-canoe

Supervised 10 volunteers • Published and distributed sporting information • Assisted athletes, team members, umpires and international federation officials • Reviewed team leaders' and games officials' guides • Set up competition installations (field of play).

2014–2016 Centro de Biologia Marinha, Universidade de São Paulo
São Sebastião, SP
Postdoctoral research fellow

Mined and analysed georeferenced data • Implemented MySQL database for georeferenced data storage and management • Performed *in situ* field measurements • Implemented coastal hydrodynamic model • Taught lectures and mentored students • CAPES fellow.

2009–2014   **Instituto Oceanográfico, Universidade de São Paulo**
São Paulo, SP
Sc.D. graduate student
Mined and analysed satellite remote sensing images • Developed signal de-noising filter using discrete wavelet transforms • Developed geometric feature detector • Taught short courses on Python • Co-organized scientific symposium • Undergraduate teaching assistant • Undergraduate student thesis co-adviser. • CAPES and CNPq fellow.

2008–2009   **Bermuda Institute of Ocean Sciences**
Saint George, Bermuda
Trainee/research scholar
Performed independent research on influence of large-scale waves on chlorophyll concentration using satellite images • Gave series of short talks • Nippon Foundation/Partnership for Observation of the Global Oceans fellow.

EDUCATION

2009–2014   Sc.D. Physical Oceanography
Instituto Oceanográfico, Universidade de São Paulo

2008–2009   Pg.C. Ocean Observatories
Bermuda Institute of Ocean Sciences

2006–2008   M.Sc. Physical Oceanography
Instituto Oceanográfico, Universidade de São Paulo

2000–2004   B.Sc. Physics
Instituto de Física, Universidade de São Paulo

1998–1999   Industrial Business Management vocational training
Colégio Humboldt, Instituto de Formação Profissional Administrativa

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SELECTED COMPLIMENTARY EDUCATION

Jun 2023   Scrum Foundations
Scrum Alliance. Credential ID 001540195

Nov 2021   AI Product Manager
Udacity. Credential ID PLDDTJKK

Apr 2021   Venture Deals
Kauffman Fellows & TechStars. Credential ID 10581-489738

May/2014   Mini-school on Dynamical Systems in Biology
International Centre for Theoretical Physics, South American Institute for Fundamental Research

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SKILLS AND INTERESTS

Data analysis   Data mining, dynamical systems, K-nearest neighbours, multi-variate linear and logistic regressions, artificial neural networks, principal component analysis, data visualization, wavelet and Fourier spectral analysis, web scraping.

Computer programming   Python, MATLAB/Octave, SQL, PHP, Visual Basic, HTML, CSS, FORTRAN, JavaScript.

Databases   PostgreSQL, MySQL/MariaDB, SQLite.

Rowing   National and continental rowing umpire accredited by *Confederação Brasileira de Remo* (CBR) and *Confederación Sudamericana de Remo* (CSAR).

Volunteering   English tutor at *Cidadão Pró-Mundo* since 2019.

Hobbies   Woodwork, sourdough bakery

Languages   **Native** (Brazilian) Portuguese
Independent English, German, French
Basic Spanish